

AMENDMENTS TO THE CLAIMS

Listing of the Claims:

Following is a listing of all claims in the present application, which listing supersedes all previously presented claims:

10. (Currently Amended) A tuning-fork type vibration gyro having comprising:
a ferroelectric tuning-fork vibration body generating a sensor signal; and
a sensor circuit to which [[a]] the sensor signal generated by [[a]] the tuning-fork
type vibration body is input, said sensor circuit comprising including:
a differential amplifier having two input terminals between to which said
sensor signal is input; and
a capacitor ~~or a voltage limiting element~~ being connected between the two
input to terminals of said differential amplifier.

11. (Currently Amended) The tuning-fork type vibration gyro according to
claim 10 19 wherein each of said voltage limiting elements element is a Zener diode[[,]]
and ~~said and said~~ ~~Zener diode, said capacitor and said differential amplifier are~~
~~integrated into one piece.~~

12. (Currently Amended) A tuning-fork type vibration gyro having comprising:
a ferroelectric tuning-fork vibration body generating a sensor signal; and
a sensor circuit to which [[a]] the sensor signal generated by [[a]] the tuning-fork
type vibration body is input, said sensor circuit comprising including:

a differential amplifier having two input terminals between to which said sensor signal is input; and

two inductors, each being connected in series to each of the input
terminals of said differential amplifier.

13. (Currently Amended) The tuning-fork type vibration gyro according to claim 10, 12, 18 or 19, wherein said differential amplifier comprises[[:] is formed in an integrated circuit and includes:

a first stage transistor having two transistors being differentially connected;
succeeding stages having transistors connected to the first stage; and
[[a]] guard electrodes, each surrounding each of the two transistors of the first
stage and being connected to a ground potential, that prevent pyroelectric noise from
flowing from the transistors of the first stage to the transistors of the succeeding stages
electrode for separating said first stage transistor from transistors in succeeding stages.

14. (Canceled)

15. (Currently Amended) The [[A]] tuning-fork type vibration gyro according to
claim 10, 12, 18 or 19, comprising:

wherein [[a]] the tuning-fork type vibration body has having two arms disposed in
parallel and a base for commonly supporting one end of said each arm, wherein a
longitudinal direction of said two arms being is defined as a z-axis and a perpendicular

direction to the two arms being thereto is defined as an x-axis,[[;]] and further comprising:

a sensor circuit to which the [[a]] sensor signal generated by said tuning-fork type vibration body is input;[[,]]

~~wherein said tuning fork type vibration body further comprises:~~

driving electrodes respectively formed on said two arms for generating vibration of said two arms in a direction parallel to said x-axis;

detecting electrodes respectively formed on said two arms for detecting electromotive force generated when said tuning-fork type vibration body rotates around said z-axis; and

dummy electrodes formed on said two arms in respective areas different from said driving electrodes and said detecting electrodes[[,]] and,

~~said sensor circuit comprises:~~

~~a differential amplifier to which said sensor signal is input; and~~

~~a capacitor or a voltage limiting element being connected to input terminals of said differential amplifier.~~

18. (New) A tuning-fork vibration gyro comprising:

a ferroelectric tuning-fork vibration body generating a sensor signal; and

a sensor circuit to which the sensor signal generated by the tuning-fork vibration body is input, said sensor circuit including:

a differential amplifier having two input terminals between which said sensor signal is input; and

two capacitors, each having one end connected to a respective one of the two input terminals of the differential amplifier and a second end commonly connected to a ground potential.

19. (New) A tuning-fork vibration gyro comprising:
a ferroelectric tuning-fork vibration body generating a sensor signal; and
a sensor circuit to which the sensor signal generated by the tuning-fork vibration body is input, said sensor circuit including:

a differential amplifier having two input terminals between which said sensor signal is input; and

two voltage limiting elements, each having one end connected to a respective one of the two input terminals of the differential amplifier and a second end commonly connected to a ground potential.